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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/738,443

DATE: 08/05/2004

TIME: 10:48:51

Input Set : N:\Crf3\RULE60\10738443.raw

Output Set: N:\CRF4\08052004\J738443.raw

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1 <110> APPLICANT: Howard A. Fields
--> 2 <110> APPLICANT: Yury E. Khudyakov
3 <120> TITLE OF INVENTION: Synthetic Peptides Immunoreactive With Hepatitis A
4   Virus Antibodies
5 <130> FILE REFERENCE: 14114.0342P1
6 <140> CURRENT APPLICATION NUMBER: US/10/738,443
7 <141> CURRENT FILING DATE: 2003-12-16
8 <150> PRIOR APPLICATION NUMBER: US/10/031,088
9 <151> PRIOR FILING DATE: 2002-01-14
10 <150> PRIOR APPLICATION NUMBER: PCT/US00/19267
11 <151> PRIOR FILING DATE: 2000-07-14
12 <150> PRIOR APPLICATION NUMBER: 60/144,412
13 <151> PRIOR FILING DATE: 1999-07-15
14 <160> NUMBER OF SEQ ID NOS: 94
15 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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19 <212> TYPE: PRT
20 <213> ORGANISM: Artificial Sequence
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22 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic HAV
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28               20
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33 <213> ORGANISM: Artificial Sequence
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45 <212> TYPE: PRT
46 <213> ORGANISM: Artificial Sequence

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47 <220> FEATURE:
48 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic HAV
49   VP2 and VP4 Peptides
50 <400> SEQUENCE: 3
51   Glu Val Gly Ser His Gln Val Glu Pro Leu Arg Thr Ser Val Asp Lys
52       1             5             10             15
53   Pro Gly Ser Lys Gln
54               20
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58 <212> TYPE: PRT
59 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic HAV
62   VP2 and VP4 Peptides
63 <400> SEQUENCE: 4
64   Glu Pro Leu Arg Thr Ser Val Asp Lys Pro Gly Ser Lys Lys Thr Gln
65       1             5             10             15
66   Gly Glu Lys Phe Gln
67               20
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73 <220> FEATURE:
74 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic HAV
75   VP2 and VP4 Peptides
76 <400> SEQUENCE: 5
77   Asp Lys Pro Gly Ser Lys Lys Thr Gln Gly Glu Lys Phe Phe Leu Ile
78       1             5             10             15
79   His Ser Ala Asp Gln
80               20
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84 <212> TYPE: PRT
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86 <220> FEATURE:
87 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic HAV
88   VP2 and VP4 Peptides
89 <400> SEQUENCE: 6
90   Leu Tyr Asn Glu Gln Phe Ala Val Gln Gly Leu Leu Arg Tyr His Thr
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92   Tyr Ala Arg Phe Gln
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97 <212> TYPE: PRT
98 <213> ORGANISM: Artificial Sequence
99 <220> FEATURE:

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100 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic HAV
101     VP2 and VP4 Peptides
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103     His Thr Tyr Ala Arg Phe Gly Ile Glu Ile Gln Val Gln Ile Asn Pro
104         1             5             10             15
105     Thr Pro Phe Gln
106             20
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109 <211> LENGTH: 20
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114     VP2 and VP4 Peptides
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116     Ile Asn Pro Thr Pro Phe Gln Gln Gly Gly Leu Ile Cys Ala Met Val
117         1             5             10             15
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119             20
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123 <212> TYPE: PRT
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125 <220> FEATURE:
126 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic HAV
127     VP2 and VP4 Peptides
128 <400> SEQUENCE: 9
129     His Phe Lys Asp Pro Gln Tyr Pro Val Trp Glu Leu Thr Ile Arg Val
130         1             5             10             15
131     Trp Ser Glu Leu Gln
132             20
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138 <220> FEATURE:
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141 <400> SEQUENCE: 10
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143         1             5             10             15
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145             20
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149 <212> TYPE: PRT
150 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic HAV

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Input Set : N:\CrF3\RULE60\10738443.raw  
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153      VP3 Peptide
154 <400> SEQUENCE: 11
155      Ser Asp Pro Ser Gln Gly Gly Gly Ile Lys Ile Thr His Phe Thr Thr
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157      Trp Thr Ser Ile Gln
158          20
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162 <212> TYPE: PRT
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164 <220> FEATURE:
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166      VP3 Peptide
167 <400> SEQUENCE: 12
168      Gly Gly Ile Lys Ile Thr His Phe Thr Thr Trp Thr Ser Ile Pro Thr
169          1              5              10              15
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171          20
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174 <211> LENGTH: 21
175 <212> TYPE: PRT
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177 <220> FEATURE:
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179      VP3 Peptide
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181      Gln Phe Pro Phe Asn Ala Ser Asp Ser Val Gly Gln Gln Ile Lys Val
182          1              5              10              15
183      Ile Pro Val Asp Gln
184          20
186 <210> SEQ ID NO: 14
187 <211> LENGTH: 21
188 <212> TYPE: PRT
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190 <220> FEATURE:
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192      VP3 Peptide
193 <400> SEQUENCE: 14
194      Phe Asn Ala Ser Asp Ser Val Gly Gln Gln Ile Lys Val Ile Pro Val
195          1              5              10              15
196      Asp Pro Tyr Phe Gln
197          20
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200 <211> LENGTH: 21
201 <212> TYPE: PRT
202 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic HAV
205      VP3 Peptide

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206 <400> SEQUENCE: 15
207   Ser Asp Ser Val Gly Gln Gln Ile Lys Val Ile Pro Val Asp Pro Tyr
208       1             5             10             15
209   Phe Phe Gln Met Gln
210               20
212 <210> SEQ ID NO: 16
213 <211> LENGTH: 21
214 <212> TYPE: PRT
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216 <220> FEATURE:
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218   VP3 Peptide
219 <400> SEQUENCE: 16
220   Ile Lys Val Ile Pro Val Asp Pro Tyr Phe Phe Gln Met Thr Asn Thr
221       1             5             10             15
222   Asn Pro Asp Gln Gln
223               20
225 <210> SEQ ID NO: 17
226 <211> LENGTH: 21
227 <212> TYPE: PRT
228 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic HAV
231   VP3 Peptide
232 <400> SEQUENCE: 17
233   Lys Cys Ile Thr Ala Leu Ala Ser Ile Cys Gln Met Phe Cys Phe Trp
234       1             5             10             15
235   Arg Gly Asp Leu Gln
236               20
238 <210> SEQ ID NO: 18
239 <211> LENGTH: 21
240 <212> TYPE: PRT
241 <213> ORGANISM: Artificial Sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic HAV
244   VP3 Peptide
245 <400> SEQUENCE: 18
246   Phe Trp Arg Gly Asp Leu Val Phe Asp Phe Gln Val Phe Pro Thr Lys
247       1             5             10             15
248   Tyr His Ser Gly Gln
249               20
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253 <212> TYPE: PRT
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255 <220> FEATURE:
256 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic HAV
257   VP3 Peptide
258 <400> SEQUENCE: 19

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VERIFICATION SUMMARY

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